EXHIBIT 178 REDACTED



Vahab Mirrokni AdX Tech Talk

Google Confidence and Proprietar

Outline



- Introduction
- Online Ad Allocation
 - o Matching Ranker: Primal-Dual Approach
- Cross-Priority Ranker with AdX
 - o Problem Definition: Priority Levels
 - Different Solutions
 - Our Solution: Cross-Priority Ranker
- Evaluation and Current Status
 - Offline and Live Experiments
 - Delivery and eCPM lift
- Future Opportunities

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